HCIE-Datacom Training

Duration:15.0Training Method:Course Level:Update Time:2022-04-26 16:44:41

Objectives

On completion of this program, the participants will be able to:

- Describe OSPF and IS-IS fast convergence technologies.
- Configure OSPF and IS-IS equal-cost routes.
- ② Describe OSPF and IS-IS default routes advertisement.
- Describe the application scenarios of OSPF and IS-IS multi-process.
- 2 Describe the GR and NSR principles of OSPF and IS-IS.
- Describe the application scenarios of OSPF forwarding addresses.
- ② Describe the working principles of IS-IS LSP fragment extension.
- Use AS_Path Filter and Community Filter to implement BGP route control.
- Apply the ORF function and peer group function of BGP.
- Understand basic configuration for implementing BGP security.
- Describe the concept and usage of the 4-byte AS number.
- 2 Describe the networking of BGP RRs.
- Clarify the types and configurations of port isolation.
- Clarify the technical principles of port security.
- Detect MAC address flapping.
- Clarify switch traffic suppression and storm control functions.
- Describe application scenarios of DHCP snooping.
- Clarify how IP Source Guard works.
- Describe the working scenarios of dual-system hot backup.
- Describe the basic concepts and terms of MPLS.
- Describe the working principles of MPLS.
- Configure static LSPs.
- ② Describe the MPLS forwarding process.
- ② Describe the basic concepts and working mechanism of LDP.

② Describe the MPLS label distribution control mode, advertisement mode, and retention mode.
① Understand Basic LDP configuration.
Describe the MPLS VPN model.
① Describe the basic concepts of MPLS VPN.
② Describe MPLS VPN routing and label distribution.
② Describe the MPLS VPN data forwarding process.
Perform basic MPLS VPN configurations.
② Describe the principles of the three cross-domain solutions.
① Understand basic configuration of three cross-domain solutions.
② Describe the application scenarios of the three cross-domain solutions.
② Describe the development histories of EVPN.
Describe how EVPN solves VPLS problems.
① Describe the common routing types and working principles of EVPN.
② Describe the principles of inter-AS EVPN.
② Describe typical application scenarios of EVPN.
② Analyze the differences between OSPFv3 and OSPFv2.
① Understand basic OSPFv3 configuration.
① Describes IS-IS extensions to IPv6.
① Understand basic IS-IS (IPv6) configuration.
More
Target Audience
Personnel who wants to become datacom experts
Personnel who wants to achieve HCIE-Datacom certification
Prerequisites
Be familiar with common operations on Huawei network devices

Knowledge skills described in the HCIP-Datacom-Core Technology course $% \left(1\right) =\left(1\right) \left(1$

More

Training Content

1. Advanced Routing and Switching Technology
Advanced IGP Features
Advanced BGP Features
☑ Network Security Technologies
MPLS Fundamentals and Configuration
MPLS LDP Fundamentals and Configuration
MPLS VPN Fundamentals and Configuration
MPLS VPN Deployment and Application
1 Inter-AS MPLS L3VPN
EVPN Fundamentals and Configuration
Propriet Propriet
Pv6 Transition Technologies
2 QoS Fundamentals
Network O&M
Network Troubleshooting
Network Migration
2. Campus Network Planning and Deployment
Enterprise Network Introduction
Enterprise Campus Network Overview
2 VXLAN and Campus Network Virtualization
Network Admission Control
? Free Mobility
Large- and Medium-Sized Virtualized Campus Network Design
Virtualized Campus Network Deployment Guide

2 Small- and Medium-Sized Cloud-Managed Campus Network Design

- CampusInsight Intelligent O&M
- 3. WAN Interconnection Network Planning and Deployment
- WAN Interconnection Solution and Technologies Overview
- Key Technologies of WAN Interconnection
- 2 SD-WAN Solution Planning and Design
- 4. Bearer WAN Planning and Deployment
- 2 Enterprise Bearer WAN Solution
- Enterprise Bearer WAN Architecture and Key Technologies
- Segment Routing
- 2 SRv6 Fundamentals and Configuration
- 2 Enterprise Bearer WAN Design
- PE Key Technologies and Evolution Trends
- 5. Network Automation
- Network Automation Overview
- SSH Fundamentals and Practice
- NETCONF YANG Fundamentals and Practice
- Telemetry Fundamentals and Practice
- OPS Fundamentals and Practice
- RESTful Fundamentals and Practice
- Imaster NCE-Campus Open APIs Introduction
- Imaster NCE Service Openness And Programmability